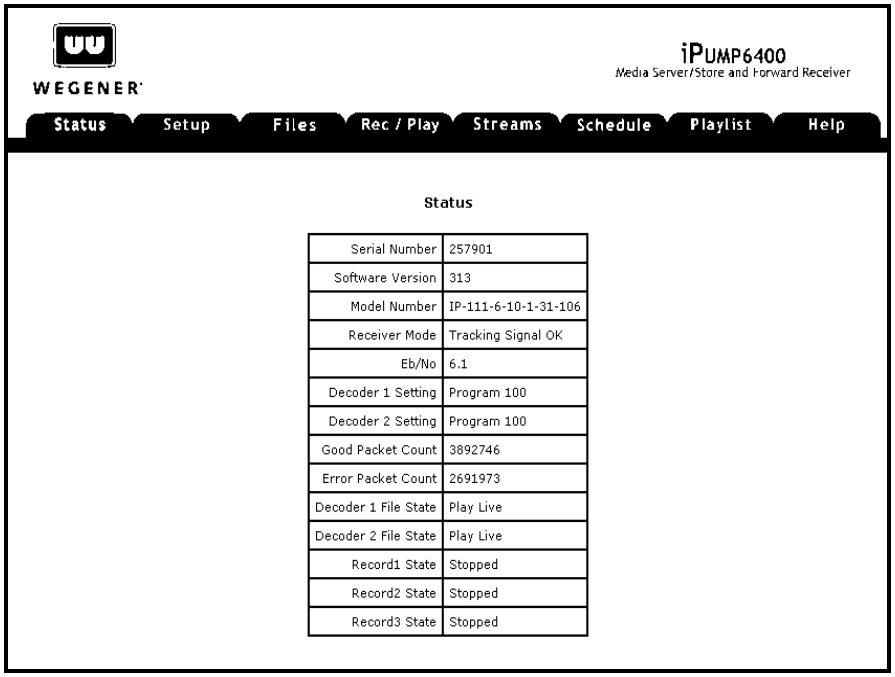

Figure 4. iPump Web Interface Status Page

6. **Shut down your iPump** from the front panel. Navigate from the home screen to the Shutdown screen as follows:

Step	Press	Display / Field Details	Screen Type
j.	▷	**UNIT SETUP**	**Menu**
k.	▷	**UNIT STATUS DETAIL**	**Menu**
l.	▷	**NAVIGATION HELP**	**Menu**
m.	▷	**UNIT SHUTDOWN**	**Menu**
n.	**ENTER**	**Are You Sure? !!!** **No-ESC, Yes-ENTER** (Press **ESC** to cancel or **ENTER** to shut down.)	**User Input - Selectable**
o.	**ENTER**	Press **ESC** to cancel or **ENTER** to shut down.	**Status Display**

At shutdown, the LCD screen becomes blank and the LED indicators go out. The **iPump** is now shut down. The power switch on the rear panel may be left in the on position for quick restart from the front panel. (See note in Step **4**).

iPUMP 6400

Professional Media Server

Quick Start Guide

WEGENER

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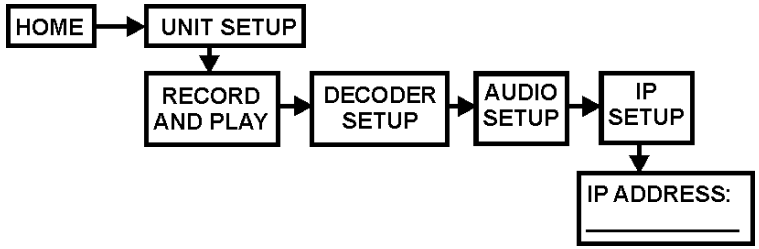
The Wegener iPump 6400 is approved under FCC Part 15B Class A, UL1950, CSA, and CE.

CE



Step	Press	Display / Field Details	Screen Type
a.	▷	UNIT SETUP	Menu
b.	ENTER	RECORD AND PLAY	Menu
c.	▷	DECODER SETUP	Menu
d.	▷	AUDIO SETUP	Menu
e.	▷	IP SETUP	Menu
f.	ENTER	IP Address _____	Data Display

g. Record the **IP AddresS** of the **iPump** unit displayed on the LCD screen.

h. Using a computer on the Ethernet LAN attached to the **iPump**, open your web browser.

i. Type the **IP Address** noted from the **IP Address** screen in the browser's address box.

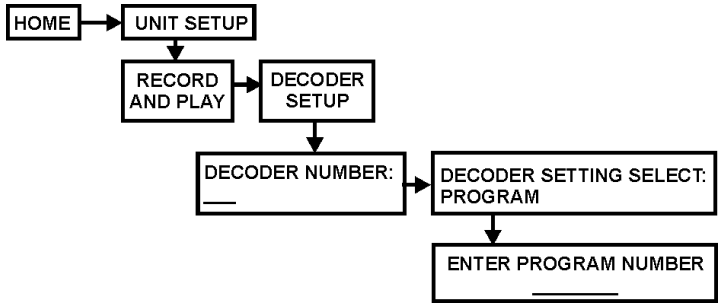
Note: For IP addresses that include subfields with leading zeros, you must omit those zeros when entering the address in your browser. For example, IP address 128.092.056.004 would be entered as 128.92.56.4.

Note: In some cases, it may be necessary to set specific values for the IP and Subnet addresses. Consult your network administrator.

j. Press <**Enter**> (on the computer keyboard) and the **iPump**'s Status page will be displayed (**Figure 4**).

k. Click the appropriate tab to select Files, Schedule, Status, Help, or Setup.

8 To configure your iPump's decoder output, navigate from the **Home** screen to the **Decoder Setup** screen as follows:



Step	Press	Display / Field Details	Screen Type
a.	ENTER	**RECORD AND PLAY**	**Menu**
b.	▷	**DECODER SETUP**	**Menu**
c.	ENTER	**DECODER NUMBER** **1** (Available decoders are **1** and **2**. If your **iPump** has only one decoder, this **Decoder Number** screen will not appear. Instead, the **Decoder Setting Select** screen described in step **e** will appear.	**User Input - Selectable**
d.	▷	**DECODER SETTING SELECT:** **FOLLOW TUNE** (**FOLLOW TUNE** accepts the program selection from the current RF setup and sends you back to the Decoder Setup screen. **PROGRAM** allows you to select a particular program from the stream. **OFF** turns off the decoder)	**User Input - Selectable**
If **PROGRAM** is selected, go on to step **f**. Otherwise your decoder setup is complete.			
e.	ENTER	**ENTER PROGRAM NUMBER:** **001** (Number of program to select from stream. Available program numbers are dependent on transport stream.)	**User Input - Selectable**

Your decoder setup is now complete. The selected program will begin playing from the selected decoder.

9 For web browser control and status checking, first navigate from the home screen to the **IP Setup** screen as follows:

Welcome to your iPump Media Server/Store and Forward Receiver ! Your Wegener iPump is an advanced multimedia appliance that allows simple, efficient management of both live and recorded digital video, audio, and data content. With a single unit, you can receive, decode, and play out broadcast-quality transmissions while receiving and recording multiple programs or IP data files from a satellite or TCP/IP connection. Along with our Compel MediaPlan® software, you can insert content into real-time or recorded programs and can schedule playback of custom sequences of live and recorded content. This Quick Start Guide will help you quickly set up and start operating your iPump. For a full description of the iPump's abilities and detailed installation and operation instructions, please consult the iPump User's Reference Manual available on the worldwide web at wegener.com. For additional help, contact us by phone at (770) 814-4057, by fax at (678) 624-0294, or by email at service@wegener.com.

1. Remove your iPump, ac power cord, and bagged accessories from the shipping carton. Call your shipping carrier immediately if any damage is discovered.

2. Place your iPump indoors on a well-supported, flat table or desktop or mount it in a standard equipment rack. If rack-mounting your iPump, please consult the iPump User's Reference Manual for detailed instructions and specific cautions.

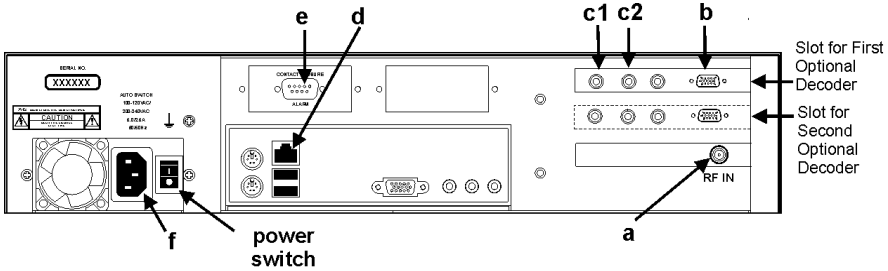
3. Connect the following items (refer to Figures 1 and 2):

- **f.** The L-band output from your antenna's LNB to the iPump's RF input port (a) [950 to 2150 MHz; female Type F connector with extender cable attached or BNC connector if your unit has the optional ASI input]
- **g.** A suitable monitor to the iPump's audio port (**b**). [A DB-15 HD cable assembly is included.]
- **h.** A suitable video monitor to the iPump's video port (**c1**) [**c1** is a female BNC for SDI.] or (**c2**) [**c2** is a female BNC for composite video.]

Note: Repeat steps (**b.**) and (**c.**) for the second decoder if your **iPump** is equipped with two decoders.

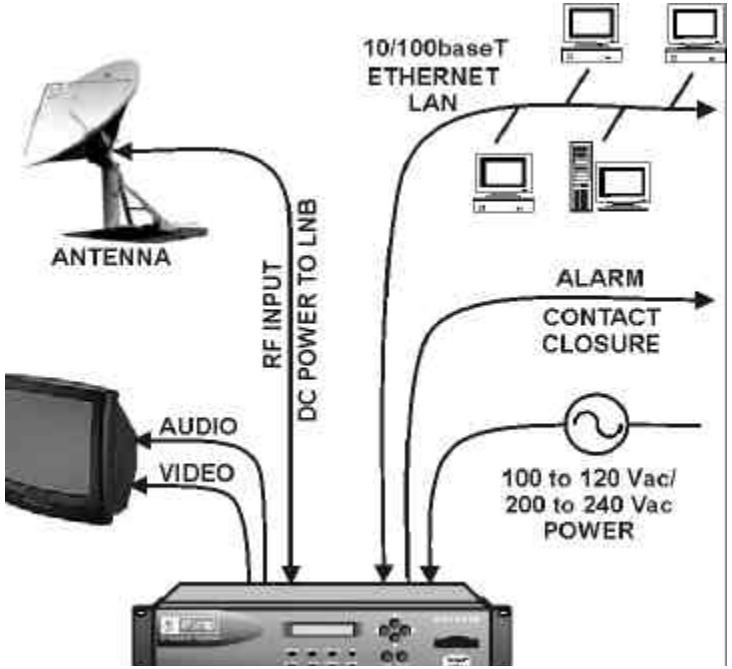
i. Y our LAN line to the **iPump**'s Ethernet port (**d**) [10/100baseT; female RJ-45 connector]

Figure 1. iPump Rear-Panel Connectors



The Alarm port (**e**, Figure 1) on the rear panel may be used to provide a contact closure during alarm conditions or on command from **Compel**. See the **iPump User's Manual** for complete connector and signal details.

Figure 2. iPump Connections

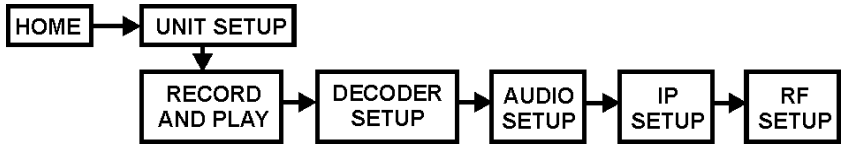


Note: Do not connect devices to the mouse, keyboard and other connectors not described here. They are for factory use only.

LED Label	Color and State	Meaning
AUTH	GREEN constant	Current transport stream is protected by conditional access (CA) and **iPump** is authorized and descrambling.
	GREEN slow blink	Current transport stream is protected by conditional access (CA) but **iPump** is unauthorized.
	Off	Tracked channel is not scrambled ("in the clear").
WARNING*	AMBER constant	One or more warning conditions exist. Read warning information from front-panel LCD.
	Off	No warning conditions exist.
ALARM*	RED constant	One or more alarm conditions exist. Read alarm message from LCD.
	Off	No alarm condition exists

* Only one alarm or warning condition is displayed at a time on the LCD. When multiple alarm or warning conditions exist, those conditions are displayed in the order of importance. The most critical condition is displayed first and others may be viewed by pressing the right arrow button ▷.

7. Set up or adjust your iPump's RF settings at the front panel. (If your unit has the optional ASI input, this step is not necessary - go to step **7**). From the home screen, navigate to the **RF Setup** screen as follows:



Note: Use the arrow buttons to move left and right through the menu screens and the **ENTER** button to move down a level. Use the **ESC** button to move upward through the menu screens. By pressing **ESC** repeatedly, you can always return to the **iPump** home screen.

Step	Press	Display / Field Details	Screen Type
a.	ENTER	UNIT SETUP	Menu
b.	▷	UNIT SETUP	

The liquid crystal display (LCD) provides menu, data, and input screens to the user. Menu screens are entry points to further screens showing signal or unit status or to user-input screens that can be changed by the user. The "home" screen displays the **iPump** unit's **Serial Number**, **Eb/N0**, and alternately displays **FEC Ratio**, **Signal Frequency**, and **Transport Rate**. This screen may be reached at any time by repeatedly pressing the **ESC** button.

Six pushbuttons allow you to move through the various screens, select characters for input, and accept or reject changes. To move downward or upward through the menu screens, use the **ENTER** and **ESC** buttons. To enter or change data in editable fields, press the **ENTER** button and use the up △ and down ▽ arrow buttons to increment the highlighted character or digit. Use the right ▷ and left ◁ arrow buttons to move to adjacent digits and press **ENTER** again to accept your input. Pressing **ESC** before accepting your input will cancel any changes.

Eight light-emitting diodes (LEDs) illuminate to show unit status at a glance. **Table 1** gives the meaning of each LED indicator.

Table 1. LED Indicator Descriptions

LED Label	Color and State	Meaning
CARRIER	GREEN constant	Receiver is tracking carrier.
	GREEN slow blink	Receiver is not tracking carrier.
RECORD	GREEN constant	**iPump** is recording a program.
	Off	**iPump** is not recording.
DOWNLOAD	GREEN constant	**iPump** is downloading a file via **Compel**.
	Off	**iPump** is not downloading.
LAN	GREEN constant	Light network activity over the **iPump**'s LAN interface.
	GREEN slow blink	Heavy network activity over the **iPump**'s LAN interface.
	Off	**iPump** observed no packet transfers during the last 20 secs.
COMPEL	GREEN constant	**iPump** has received a **Compel** command within the last two minutes.
	GREEN fast blink	**iPump** has been addressed by **Compel** within the last five seconds.
	GREEN slow blink	**iPump** is in tracking mode and **Compel** is required but no **Compel** command received within the last two minutes.

4. Next, start your iPump as follows:

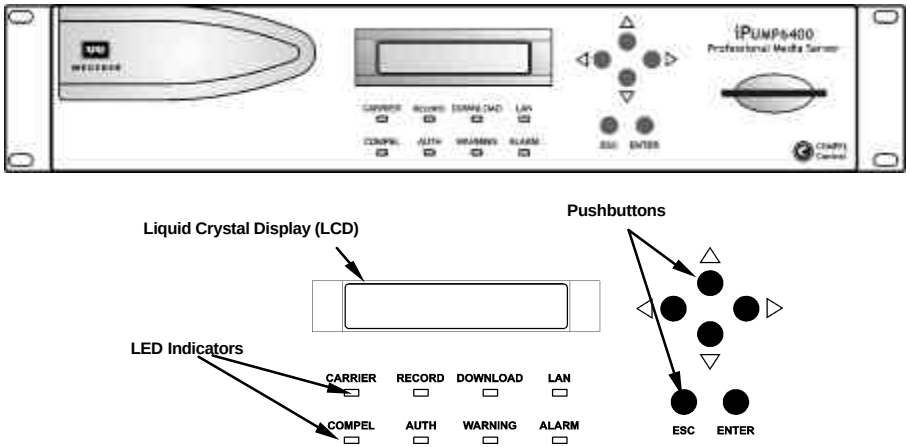
a. **Connect the ac power cord** to the **iPump**'s IEC receptacle (**f**, **Figure 1**) and to a 100-to-120-Vac or 200-to-240-Vac source.

b. **Set the power switch to the On position** (**I**) and press and hold the **ENTER** button on the front panel for two seconds. The **iPump** will power up and begin the boot process. Outputs are muted during the short initialization time. All eight LED indicators flash on and off as the unit begins initialization. Until you configure your **iPump**'s RF settings (see Step **6**), a loss-of-carrier alarm may be displayed (red **ALARM** LED indicator is lit and LCD screen indicates the alarm state). RF settings are not necessary for units with the optional ASI input.

Note: To easily restart the **iPump** any time after a normal shutdown (see Step **9**), simply press the **ENTER** button on the **iPump**'s front panel (refer to the **User's Manual** for details). If the receiver is tracking a carrier signal, the green **CARRIER** LED will light.

5. Get to know the iPump's front panel

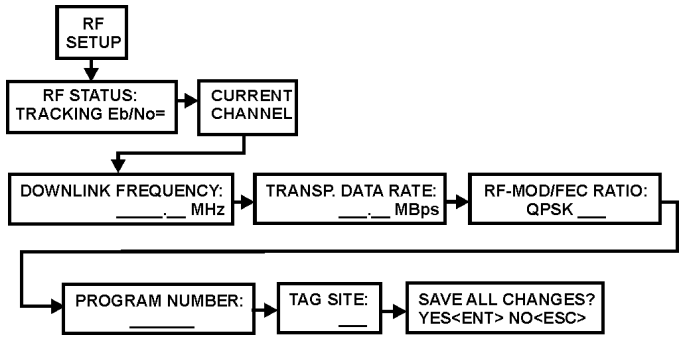
Figure 3. iPump Front-Panel Controls and Indicators



Step	Press	Display / Field Details	Screen Type
a.	ENTER	**UNIT SETUP**	Menu
b.	▷	**UNIT SETUP**	Menu
c.	ENTER	**RECORD AND PLAY**	Menu
d.	▷	**DECODER SETUP**	Menu
e.	▷	**AUDIO SETUP**	Menu
f.	▷	**IP SETUP**	Menu
g.	▷	**RF SETUP**	Menu

Note: To enter data in editable fields, press **ENTER** and use the up △ and down ▽ arrow buttons to increment the highlighted character or digit. Use the right ▷ and left ◁ arrow buttons to move to adjacent digits. Press **ENTER** again to accept your input or **ESC** to cancel changes.

From **RF Setup**, adjust RF settings as follows:



Step	Press	Display / Field Details	Screen Type
h.	ENTER	**RF STATUS:** **TRACKING: Eb/No = XX.X** (RF status is shown. If tracking, then E_b/N_0 is also displayed.)	Data Display
i.	▷	**CURRENT CHANNEL**	Menu
j.	ENTER	**RF STATUS:** **TRACKING: Eb/No = XX.X** (RF status is shown. If tracking, then E_b/N_0 is also displayed.)	Data Display

Step	Press	Display / Field Details	Screen Type
k.	▷	**CURRENT CHANNEL**	Menu
l.	ENTER	**DOWNLINK FREQUENCY:** **XXXXX.XX MHz** (Enter downlink frequency from the LNB local oscillator in megahertz.)	User Input - Editable
m.	▷	**TRANSP. DATA RATE:** **XXX.XX Mbps** (Enter transport stream data rate in megabits per second.)	User Input - Editable
n.	▷	**RF-MOD/FEC RATIO:** **QPSK 3/4** (**RF Mod**ulation is **QPSK**. Available **F**orward **E**rror **C**orrection **Ratio**s are **1/2**, **2/3**, **3/4**, **5/6**, and **7/8**.)	User Input - Selectable
o.	▷	**PROGRAM NUMBER:** **00001** (Number of program to select from stream).	User Input - Editable
p.	▷	**TAG SITE:**	<Unused>
q.	▷	**SAVE ALL CHANGES?** **YES<ENT> NO<ESC>** (Press **ENTER** to save or **ESC** to cancel all RF Setup changes.)	User Input - Selectable

If you are satisfied with all data entered, press **ENTER** to save your changes. Pressing either **ENTER** or **ESC** (which cancels all changes) completes your RF setup and returns you to the Current Channel screen. If all settings are correct and the red **ALARM** LED remains lit, there may be a problem with the antenna, its position, or cable connections. Consult the **iPump User's Manual** for more troubleshooting help.

6. To configure your iPump's decoder output, navigate from the **Home** screen to the **Decoder Setup** screen as follows: